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     Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
     Thereof

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<150> US
<151> 2000-01-04

<150> US 60/115,125
<151> 1999-01-06

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<170> PatentIn version 3.2

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40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc   240

    tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa   300

    caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga   360
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156

accaagatgg tcaacaga   438

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15   aaaggggggaa ggcccccaaa accggggggg gggnaaaaag gtgggtttcc cccttttttcc   180

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aaggggggaa aatttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg   240

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ctgtacttga actctaaaac tgttggagaa actcagtgct taccccaaca gattcatttc   180

aaatagctgt aaaaggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc   240

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attccttggg cctaggaacc ctcatcaccc tcatcccaac gtcaacccag atcttctctt   300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt   360

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg   180
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gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa   240

tg   242

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     tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggaggtt   120

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aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag   180

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ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca   180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga   240

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40      ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg   180

        acgctctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct   240

        agcagcagga cactttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna   300

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        ttgccgggga gtcagcagtc gctttttccc ggncgaagcc tcgaactcac cancctgtct   360
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169

ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga   420

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gtcgggtact aaggcgttag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc   240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag   300

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aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa accccccat ttcntncccc   180
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agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc   240

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5   actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt   180

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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc   180

cantnnnctg gggncccacn nnngngaact gagagtggat cttgtgtacc tgacnnacca   240
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ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg   360

25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat   420

aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa   480

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agccnttaag ancacttntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt   660

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caagtacgcn agcnctgaan ctaaagcaag caagaaaaag   100

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tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa   180

gaagagtctt agttcattta tttggcccag aaccctctaa tccccttgta atttatgtca   240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg   300

gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa   360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt   420

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ggatttgggg tttagaggta caattgcctt tttatggtta gagaaaggtc ctggggctgg   180

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct   240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtggtgg atgctggcag   300

acattgttat tgccatt   317

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<211> 209
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aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat   180

taattgggag tggggctga aacaattcg   209

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<211> 262
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<213> Human

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224

caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg   180

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        cccggggggag gggtatccgg tttataaacc ccaagggtat tttcttagca aaatacttaa   180

20   aaccggccgg ggttttata caaactggga acccactttt gaaaaatttt ggccttttga   240

        tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccggtt   300

        aagtattccc ccccggggggg cctttacaaa aagggcggtt ttaaaagctt ttgggccccc   360
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        tgggggcggc   430

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        tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca   180

        tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct   240

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<400> 61
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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt   180

taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg   240

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agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa   360

atgaagttga ataataaaaa tatattctac actagcacaa attataaata aagcagtgat   420

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aataatccac cagatacaag tttgcatcaa cttctgtgaa atattttttt tccttttttgt   180

tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg   240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa   300

tttgttaaaa ttgatatatt gatatataaa acttcttttg ccagtgttgg tggcacacgc   360

226

ctttaatccc agcacttagg aggcagaggc agggtggatt tctgaatttg agggcaggct   420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa   480

5 ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac   540

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gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgccca   180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag   240

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cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca   120

tatatttcaa atgtcttgct aacagtggtt actttgctct atccttagct atacgtctcg   180

40 aggcacattg ttcctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat   240

cttaactgcc ctcttgatcc ttacgtgccg gagaaggtgg aggcagaaat tttgtcaaat   300

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tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa   240
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atagctagta aactcccct gt   142
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attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc   180

ccacatttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc   240
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tagaagtcat tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa   120

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ttttgaattc taaactgtct ctgggtgggt gtgggtgcca ccaagagcat gtgttcatgt   180

agggagactg gtttttaca gttgtctatg agagagatga cagttgcctg gattatggtg   240

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gtgacattgg agataagcag gtagacagat tctcagtgta ttaggagaga aaaatcaata   300

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tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg   180

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gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat   300

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tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca   420

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15 ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc   120

cacag   125

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atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg   120
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aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga   180

cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa   240

40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa   300

ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga   360

catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga   420
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tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga   473

232

<210> 73
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<220>
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<222> (233)..(233)
<223> n is a, c, g, or t

<400> 73
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aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatgaa atgaaataat   120

gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa   180

tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga   240

gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga   300

tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga   360

aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat   420

aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg   480

atgagatgaa atgatgaaat   500

<210> 74
<211> 299
<212> DNA

<213> Human

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<223> n is a, c, g, or t

<400> 74
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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga   120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa   180

tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg   240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg   299

<210> 75
<211> 155
<212> DNA
<213> Human

<400> 75
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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga   120

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<210> 76
<211> 367
<212> DNA
<213> Human

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 76
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ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgca gtgatatcac   120

cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt   180
45

tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact   240

235

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga   300

aaatatgagg ggtggcaagg ttttgcctgt tacattctca aatggaagca aattagatat   360

gtcattg   367

<210> 77
<211> 257
<212> DNA
<213> Human

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 77
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atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta   120

tcagtgtttg gggtttattt ttaaaagaat agggtgccac cagatgttct ttagtggagg   180

agaaatgagg ccagagtgac tgcctagaaa attaagttgg taaattaatc acttttttct   240

aggtcctttc ttagtct   257

<210> 78
<211> 373
<212> DNA
<213> Human

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236

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<220>
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<222> (166)..(166)
<223> n is a, c, g, or t

25

<400> 78

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nntaantaaa aagggtgaag aannttactt cncttggtcc taaaaaacnt tttcntcagt   120

tattaccaaa atatttggac cattantaaa gantagggcc aacccnaatt tttcttgaaa   180

tttccgttaa atagccgtta aatgttttta cccatttcat attggatacc ttaaattata   240

ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttttctcctc   300

taccattatt gtcactttat gtttggaacc ccctttaccc ttccttaaag gaaaaaaagg   360

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<210> 79
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30 <223> n is a, c, g, or t

<400> 79
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35   ccttgatgtt caagtattta agaccctatg cnaatatttt ttacctttc taataaacca   120

tgtttgtt   128

40   <210> 80
<211> 213
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<213> Human

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<220>

239

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<223> n is a, c, g, or t
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<223> n is a, c, g, or t
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<223> n is a, c, g, or t
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<223> n is a, c, g, or t
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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 80
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ggccaggcct tccctttaaa aaaaaatnac cgtttttngg gggangnaac ctttaaaagg   120

ggaaaanaaa tcctttttaa anggaantcc aagggaagga ncctgnncaa nacttccccn   180

ccaataaaaa aaaccntttt ggaaangggg aaa   213

<210> 81
<211> 443
<212> DNA
<213> Human

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<223> n is a, c, g, or t

<220>
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<222> (33)..(34)
<223> n is a, c, g, or t

<220>
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<222> (39)..(39)
<223> n is a, c, g, or t

<400> 81
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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat   120

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg   180

aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat   240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa   300

tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa   360

tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa   420

atgaaatgaa atgagattaa atg   443

<210> 82
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10 <223> n is a, c, g, or t

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<222> (82)..(83)
15 <223> n is a, c, g, or t

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20 <223> n is a, c, g, or t

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25 gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata   120

ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag   180

taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata   240
30

taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat   300

aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg   360

35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg   420

taggaaagca tttcttttt tt   442

40 <210> 83
<211> 135
<212> DNA
<213> Human

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5 <220>
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<222> (36)..(36)
<223> n is a, c, g, or t

10 <400> 83
gtctaacnta aaaagtaaag aaagtaaagt aaaggnttga aggaaggaag gaaggaagga   60

aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga   120

15 aggaaggaag gaagg   135

<210> 84
<211> 346
20 <212> DNA
<213> Human

<220>
25 <221> misc_feature
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<223> n is a, c, g, or t

<400> 84
30 ggaggaggaa gagtgatgag ttctctaatn acttggttgg attagcctta gagttatcgg   60

gagttgcctt ctgtaagtgc ccctactatc aaggtttcat ggaaaatcta ggcaaggcag   120

aacttcctca gaaggacaag agacaaagaa gtgggggagg ccctcctatc catagctgag   180
35
agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc   240

aaccccagct agacagaact ttgtagattt tggggggttt aaaaggcctc aagcaaattc   300

40 taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact   346

<210> 85
<211> 100
45 <212> DNA
<213> Human

244

<400> 85
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5   gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa   100

<210> 86
<211> 201
10   <212> DNA
<213> Human

<400> 86
ttcataacat cgtcattttg ggttatgcga aatacaaatt taaatctttg tgaaatgaaa   60
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gaaaagagga agaaacgctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata   120

attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagttgt   180

20   atgtaacagt gtggggtttc a   201

<210> 87
<211> 531
25   <212> DNA
<213> Human

<400> 87
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aacccagaac gaacgcgtta agtgcgcgtt atcttcctag gatagagtcg gtgacgggaa   120

tcttttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg   180

35   ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa   240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc   300

gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga   360
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ttcttctaag cgtagcgcgt ctactccaat gttttcgtta atccagcccg aactaacgcc   420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag   480

45   aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a   531

<210> 88
<211> 530
<212> DNA
<213> Human

<400> 88
aatctcgatc gcaaacatac ggcactctcc ctcttgccgc ggttttcgtc cagcgctttc   60

cattcggtcc agtgcctcgc cctattagcc cttaagccca ccgtttctaa aactcccaga   120

acagccaaac cggtccgccc aaggcctccg tcgttttata atatattccg tttacgtata   180

aggaacgaac cccccttcat taccacggtc ccgcgtccgc ctccttctcc attcgcaaca   240

gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa   300

gatagcaaag attacccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat   360

agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa   420

tataaactta atgtcccctt tattctcccg gacgcccctt ttaaccactt cttcctatct   480

ttcgctaaca agccattgac ggcgctttgc cgcgcgggcc catctcgcgt   530

<210> 89
<211> 332
<212> DNA
<213> Human

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30   <223> n is a, c, g, or t

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35   <223> n is a, c, g, or t

<400> 89
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40   ttccaccggc ctggtttttgg ttttttccata attaattaac caggggggncc anttaaaaaa   120

aattaaggna aggnttaaaa aatttaacca angggggggtt taaagggntt ttttttttta   180

aaaaaaaagg ttaaancccc cccttttttt ttgggttggg gtgggaaaat tttgggaanc   240

45
cttaacccccc gggtttttgg gttttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa   300

247

ggaccggttt ccattttaat gggtattggg aa   332

5   <210> 90
    <211> 185
    <212> DNA
    <213> Human

10 <400> 90
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    cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaa   120

15 taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt   180

    ctcct   185

20 <210> 91
    <211> 365
    <212> DNA
    <213> Human

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    <223> n is a, c, g, or t
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    <223> n is a, c, g, or t
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    <223> n is a, c, g, or t
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    ctaggggta cttgaaaatg ctagaccagg ataactccta agtgtatatc cttggcagac   120
45
    tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga   180

aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag   240

taagtgctgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg   300

gggctgcttt ttgtcactct ggcatnagag aattgtgnng aaantttaac ttttgtaagc   360

ttgta   365

<210> 92
<211> 113
<212> DNA
<213> Human

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 92
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aagtcaggat agtagttttc attccttaga tggtacaagt gttgagacaa atg   113

<210> 93
<211> 210
<212> DNA
<213> Human

<400> 93
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atgaaaatgt tactgttgga ttaaaaaaca aattaagtcc aaatagtgat taggcaagtt   120

ggtgaggtag ggggttgctg caagagcgga agttgaaaga tcttggaaaa attaaagaaa   180

cttcatagaa ccccatctct acaccaaaaa   210

249

<210> 94
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<212> DNA
5   <213> Human

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10 <222> (5)..(5)
<223> n is a, c, g, or t

<220>
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15 <222> (25)..(25)
<223> n is a, c, g, or t

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20 <222> (38)..(39)
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25 <222> (44)..(44)
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tccccttgaa nntctctaaa ccttaacttt ctggccnttt tgtttcagan atgcctaacc   120

ctcaggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattccnttt   180

5   cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc   240

tgaacactgt aaaaatgaac tttgaaacag ttgggtagga cccaaacaga aaatgatgta   300

tggcttggaa atagtttagc tgaacattat gctttaatat tttactggcc attgcagcac   360

10   aggtttagaa atttatgttc ggctttttaa agtttta   397

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30   ngaggaagac cc   132

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35   <212> DNA
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40   ggcacttaat tttataattg atatatataa taaaaaattc aatgcagata ttgatataat   120

     aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt   180

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aaacag   246

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30

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analysis

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30

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